

Interim Centralized Spent Nuclear Fuel Storage Site for America License #SNM-2513

NRC – RIC 2006
Session W4GH
Spent Fuel Management
Washington D.C.



John Parkyn
Chairman of the Board
Private Fuel Storage, L.L.C.
March 8, 2006



- Separate ASLB recommended License on February 24, 2005
- Commissioners voted to License on September 9, 2005
- US Supreme Court refused appeal on voiding of laws blocking PFS
- ➤ NRC License issued on February 21, 2006



Site Partners

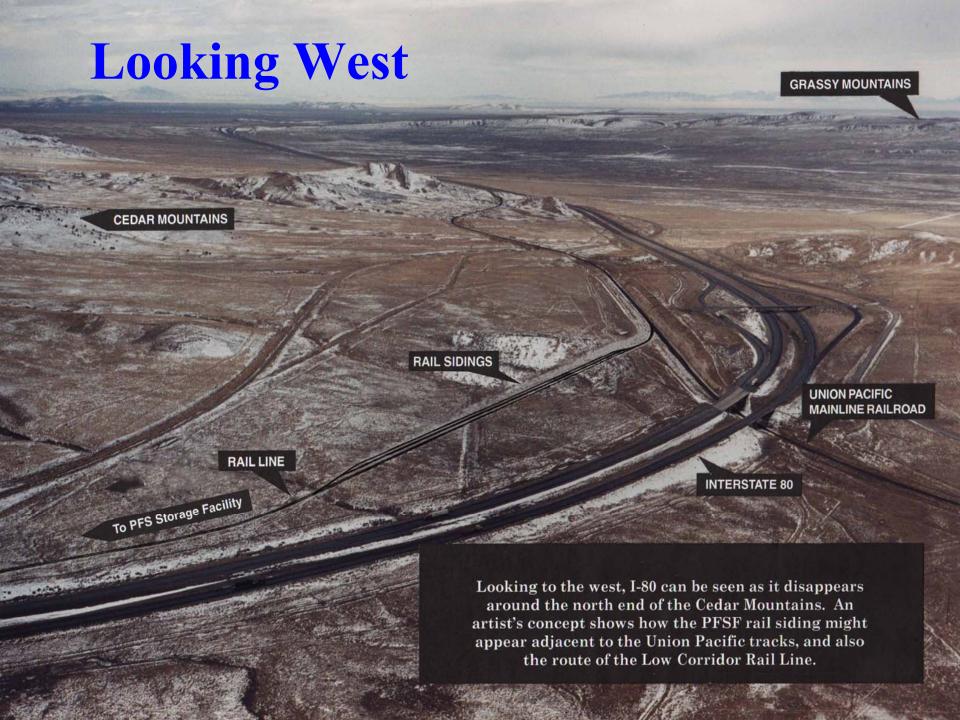


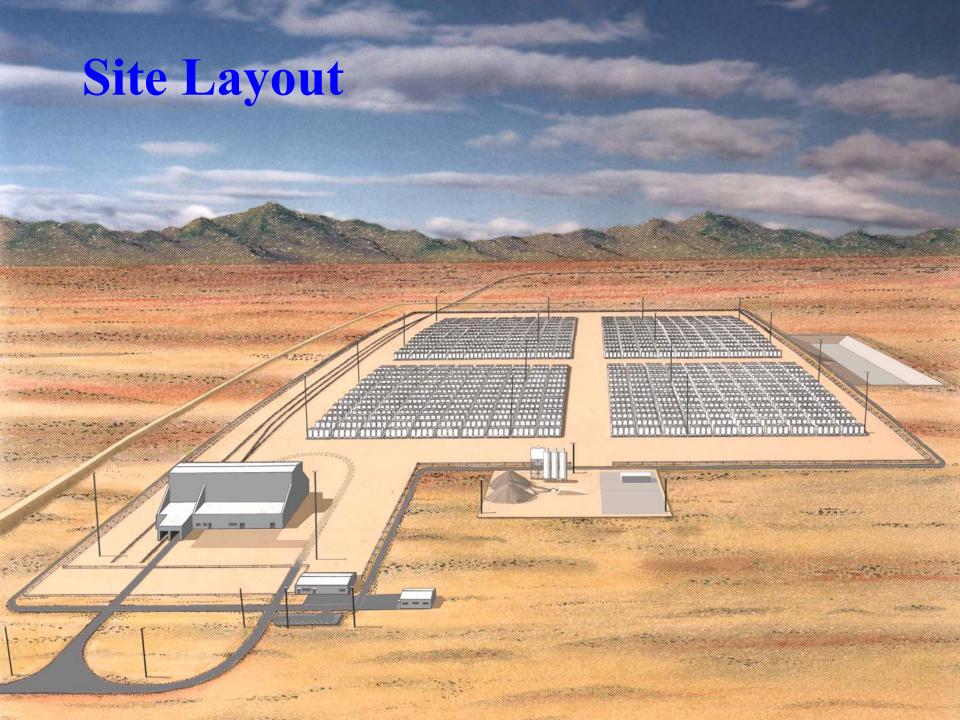
Skull Valley Band of Goshute Indians



- Less expensive than on-site storage by an individual utility
- > Enhances security of spent fuel
- Fulfills planned temporary site as outlined in 1982 NWPA
- ➤ Flexible outflow to accommodate either reprocessing or shipment directly to the proposed underground repository at Yucca Mountain

Aerial View CEDAR MOUNTAINS LAKESIDE MOUNTAINS RAIL LINE ACCESS ROAD Looking to the north, this artist's concept shows the PFSF facility, including the Low Corridor Rail Line and the site access road. HICKMAN KNOLLS







Facility Description

- Space for up to4000 casks
- Temperature indicators installed for remote read-out
- Periodic inspections
 - Looking for debris blocking vents





Transportation Strategic Concepts

- Review of truck vs. rail-only option
- Decision to select rail-only
 - Reduces interactions with public highway vehicles
 - > Enhances security of shipments
 - Reduces by a factor of 20 to 60 the number of shipments



Transportation Strategic Concepts

- Work with States as stakeholders
- Get early route agreement before submittal to DOE
- Provide training of First Responders before shipment



- ➤ Each bearing transmits conditions of vibration and temperature while in route
- Electro magnetic braking to shorten stopping distance
- Shelved couplers to protect against rough track decoupling
- > 20+ parameters transmitted live time to satellite
- > Full test of prototype
- Continuing surveillance of each cask car in service – for aging impacts
- Single use trains



- Once equipment upgraded route selection process next issue
- PFS determines best route from each customer to storage site
- Consult with railroads on initial round of review for their route preference
- Review and modify with NRC, DOT, and stakeholders (state & local governments)



Construction

- Rail car testing of prototype to be completed
- ➤ Fabrication of rolling stock and handling equipment parallels site construction and startup
- Site staffing and training



- > Scheduled for 2008/09
- > 200 canisters per year capability
- ➤ 40,000 MTU (4,000 canisters) capacity under current license
- > Open to all utilities and all canister vendors



Questions??